

A Description of the Female of *Zelotes hayashii* KAMURA, 1987 (Araneae: Gnaphosidae)

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加村隆英¹⁾: コブシケムリグモ (クモ目: ワシゲモ科) の雌の記載

Abstract The female of *Zelotes hayashii* KAMURA, 1987 is described for the first time.

One of the Japanese gnaphosid spiders, *Zelotes hayashii*, was originally described based only on one male specimen (KAMURA, 1987), and the female has never been recorded. Recently, I had an opportunity to examine two female specimens of a certain species of the genus *Zelotes* collected from Hokkaido. The shape of epigynum of these specimens is somewhat similar to that of the European *Zelotes clivicola* (L. KOCH, 1870) which is considered to be closely related to the Japanese *Zelotes hayashii* by the male palpal structure. I concluded that the females in question belong to *Z. hayashii*. In this paper, I describe the female of this species and show added data on males.

I wish to express my sincere thanks to Prof. Y. NISHIKAWA, Otomon Gakuin University, Ms. M. MATSUDA, Hokkaido, and Mr. S. KANENO, Osaka, for their offering specimens used in this study.

The abbreviations used in this paper are as follows: ALE, anterior lateral eye; AME, anterior median eye; MOA, median ocular area; p, proventral; PLE, posterior lateral eye; PME, posterior median eye; r, retroventral. Eye size means the length of long axis of an eye, but the measurement of posterior median eye was made at the horizontal level.

Zelotes hayashii KAMURA, 1987

(Figs. 1–2)

Zelotes hayashii KAMURA, 1987, p. 5, figs. 6–7. — MATSUDA, 1988, p. 15, figs. 12–13. — PLATNICK, 1989, p. 492. — YAGINUMA *et al.*, 1990, p. 271.

Female. Measurements of 1♀ (in mm). Body length 6.95. Carapace length 2.95, width 2.33. Abdomen length 4.00, width 2.40. Length of legs as shown in Table 1. Eye sizes: AME 0.10, ALE 0.12, PME 0.10, PLE 0.10. Distances between eyes: AME–AME 0.05, AME–ALE 0.01, PME–PME 0.04, PME–PLE 0.08,

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Table 1. Measurements of legs of *Zelotes hayashii* KAMURA, 1987 (♀; in mm).

Leg	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	2.01	1.30	1.43	1.25	1.00	6.99
II	1.78	1.16	1.20	1.18	0.95	6.27
III	1.63	0.93	1.01	1.33	0.88	5.78
IV	2.30	1.30	1.65	2.14	1.09	8.48

ALE-PLA 0.09. MOA anterior width 0.22, posterior width 0.24, length 0.30. Clypeus height 0.12.

Variation (♀; in mm): Body length 6.15–6.95; carapace length 2.80–2.95, width 2.30–2.33. Ventral spines on legs I and II (♀): Tibia: I and II 0–0–0; metatarsus: I and II 2–1p–0 or 2–2–0.

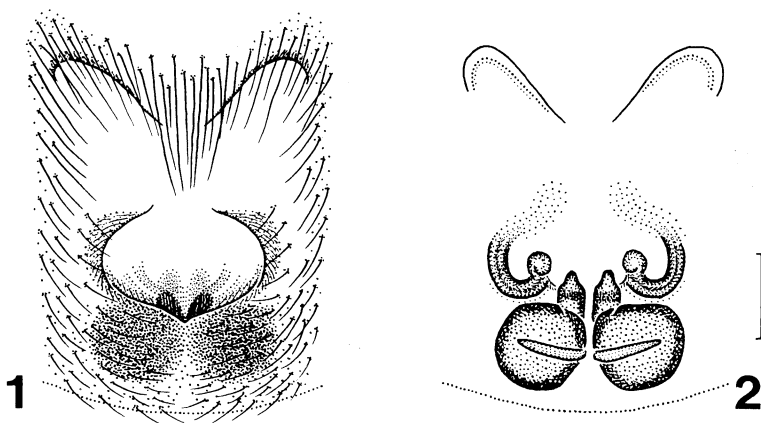
Epigynum and female genitalia as shown in Figs. 1–2. Body and appendages wholly blackish brown, but palpi and tarsi and metatarsi of legs paler.

Male. Described by KAMURA (1987). Variation (♂; in mm): Body length 5.10–5.85; carapace length 2.30–2.70, width 1.90–2.10. Ventral spines on legs I and II (♂): Tibia: I 0–0–0, II 0–0–0 or 0–1r–0; metatarsus: I 2–0–0, II 2–0–0 or 2–1r–0.

Specimens examined. 1♀, SW of Mt. Piashiri-yama, Nayoro-shi, Hokkaido, 530 m alt., 18. VIII. 1990 (Y. NISHIKAWA). 1♀, Shirikishi-manai-gawa, Furano-shi, Hokkaido, 450 m alt., 8. VIII. 1991 (M. MATSUDA). 1♂ (holotype), Nukabira, Kamishihoro-cho, Hokkaido, 8. VII. 1985 (M. MATSUDA). 1♂, same locality, 12. V. 1993 (M. MATSUDA). 1♂, Shimokuchoro-Iwainai, Tsurui-mura, Hokkaido, 26. VII–2. VIII. 1991 (S. KANENO).

Distribution. Japan (Hokkaido).

Remarks. *Zelotes hayashii* is closely related to the European *Zelotes clivicola* (L. KOCH, 1870). The female of the former is distinguished from that of the latter by having longer antero-lateral ridges of epigynum and narrower epigynal ducts (cf. GRIMM, 1985, figs. 286a, b; 287).



Figs. 1–2. *Zelotes hayashii* KAMURA, 1987. —1. Epigynum, ventral view. 2. Female genitalia, dorsal view. (Scale: 0.2 mm.)

摘 要

北海道から採集された標本に基づいて、コブシケムリグモ *Zelotes hayashii* KAMURA, 1987 の雌を初めて記載した。

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